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What is claimed:

1. A method of producing platelet derived growth factor (PDGF), comprising:

providing a transgenic mammal whose somatic and germ cells comprise a nucleic acid sequence encoding PDGF operably linked to a promoter which directs expression into mammary gland epithelial cells; and

obtaining milk from the transgenic mammal, wherein at least 30% of the PDGF in the milk is as a dimer.

- The method of claim 1, wherein the nucleic acid sequence encodes a PDGF A chain and at least 30% of the PDGF in the milk is as a PDGF-AA homodimer.
 - 3. The method of claim 1, wherein the nucleic acid sequence encodes a PDGF B chain and at least 30% of the PDGF in the milk is as a PDGF-BB homodimer.
 - 4. The method of claim 1, wherein the nucleic acid sequence comprises a nucleic acid sequence encoding a PDGF A chain and a nucleic acid sequence encoding a PDGF-B chain.
 - 5. The method of claim 4, wherein the nucleic acid sequence encoding the PDGF A chain and the nucleic acid sequence encoding the PDGF B chain are under control of the same promoter.
 - 6. The method of claim 4, wherein the nucleic acid sequence encoding the PDGF A chain is operably linked to a different promoter than the nucleic acid sequence encoding the PDGF B chain.
 - 7. The method of claim 1, wherein the transgenic mammal comprises a nucleic acid sequence encoding a PDGF A chain and a nucleic acid sequence encoding a PDGF B chain.

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8. A method of producing a transgenic mammal capable of expressing an active PDGF molecule in its milk, comprising

introducing into a cell a nucleic acid sequence encoding a PDGF chains operably linked to a promoter which directed expression in mammary epithelial cells; and allowing the cell to give rise to a transgenic mammal, wherein the transgenic mammal expresses PDGF in its milk and at least 30% of the PDGF is present in the milk is in active form.

- 9. The method of claim 8, wherein the cell is an oocyte.
- 10. The method of claim 8, wherein the cell is a somatic cell, and the somatic cell or the nucleus of the somatic cell is introduced into an oocyte.
- 11. A method of producing a transgenic mammal capable of expressing an active PDGF molecule in its milk, comprising:

introducing into a cell a nucleic acid sequence encoding a PDGF A chain operably linked to a promoter which directs expression in mammary epithelial cells;

introducing into the cell a nucleic acid sequence encoding a PDGF B chain operably linked to a promoter which directs expression in mammary epithelial cells; and allowing the cell to give rise to a transgenic mammal, wherein the transgenic mammal expresses PDGF in its milk and at least 30% of the PDGF is present in the milk in active form.

- 12. The method of claim 11, wherein the cell is an oocyte.
- 13. The method of claim 11, wherein the cell is a somatic cell, and the somatic cell or the nucleus of the somatic cell is introduced into an oocyte.
- 14. A method of producing a transgenic mammal capable of expressing an active PDGF molecule in its milk, comprising:

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providing a cell from a transgenic mammal whose germ and somatic cells comprise a nucleic acid sequence encoding a PDGF-A chain operably linked to a promoter which directs expression in mammary epithelial cells;

introducing into the cell a nucleic acid sequence encoding a PDGF-B chain operably linked to a promoter which directs expression in mammary epithelial cells; and allowing the cell to give rise to a transgenic mammal, wherein the transgenic mammal expresses PDGF in its milk and at least 30% of the PDGF is present in the milk in active form.

- 15. The method of claim 14, wherein the cell is an oocyte.
 - 16. The method of claim 14, wherein the cell is a somatic cell, and the somatic cell or the nucleus of the somatic cell is introduced into an oocyte.
 - 17. A milk preparation obtained from a transgenic mammal whose genome contains a nucleic acid sequence encoding at least one PDGF chain operably linked to a promoter which directs expression in mammary epithelial cells, wherein the PDGF chain is expressed in the mammary epithelial cells the transgenic mammal and wherein at least 30% of the PDGF in the milk is present as a dimer.
 - 18. The milk preparation of claim 17, wherein the PDGF chain is the PDGF A chain and at least 30% of the PDGF is present in the milk is as a PDGF-AA homodimer.
 - 19. The milk preparation of claim 17, wherein the PDGF chain is the PDGF B chain and at least 30% of the PDGF is present in the milk is as a PDGF-BB homodimer
 - 20. The milk preparation of claim 17, wherein the genome of the transgenic mammal comprises a nucleic acid sequence encoding a PDGF A chain under the control of a promoter which directs expression in mammary epithelial cells and a nucleic acid sequence encoding a PDGF B chain under the control of a promoter which directs expression in mammary epithelial cells.

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- 21. The milk preparation of claim 20, wherein at least 30% of the PDGF present in the milk is as a PDGF-AB heterodimer.
- 22. The milk preparation of claim 17, wherein the PDGF is human PDGF.
- 23. The milk preparation of claim 17, wherein the transgenic mammal is a goat.
- 24. The milk preparation of claim 17, wherein the milk preparation comprises at least 1 mg/ml PDGF.
- 25. An isolated nucleic acid comprising a nucleic acid sequence encoding a biologically active PDGF or a homolog thereof operatively linked to a regulatory sequence capable of directing the expression of PDGF in the mammary gland of non-human transgenic mammals.
- 26. The nucleic acid of claim 25, wherein the nucleic acid sequence encodes a PDGF A chain.
- 27. The nucleic acid of claim 25, wherein the nucleic acid sequence encodes a PDGF B chain.
- 28. The nucleic acid of claim 26, wherein the nucleic acid sequence further encodes a PDGF B chain.
- 29. The nucleic acid of claim 25, wherein the nucleic acid sequence coding for PDGF is mono- or dicistronic.
- 30. The nucleic acid of claim 25, wherein the nucleic acid sequence is dicistronic.
- 31. The nucleic acid of claim 25, wherein the nucleic acid comprises the expression cassette BC701 or BC734.